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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/718,779	11/20/2003	Muhammad Chishti	018563-004820US	1523	
46718	7590 09/22/2005		EXAMINER		
TOWNSEND AND TOWNSEND AND CREW, LLP (018563) TWO EMBARCADERO CENTER, EIGHTH FLOOR			WILSON	WILSON, JOHN J	
	SAN FRANCISCO, CA 94111-3834		ART UNIT	PAPER NUMBER	
	•		3732		

DATE MAILED: 09/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.



Office Action Summary    Total Nation   Chishtiet   Ch		Application No.	Applicant(s)				
John J. Wilson  3732  A SHORTENICD STATULORY PERIOD FOR REDLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  BY MICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  BY MICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  BY MICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  BY MICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  BY MICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  BY MICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  BY MICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  BY MICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  BY MICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  BY MICHEVER IS LONGER THE MAILING DATE OF THIS COMMUNICATION.  BY MICHEVER IS LONGER THE MAILING DATE OF THIS COMMUNICATION.  BY MICHEVER IS LONGER THE MAILING DATE OF THIS COMMUNICATION.  A PICKER CARE DATE OF THIS COMMUNICATION.  A PICKER CARE DATE OF THE MAILING DATE OF THIS COMMUNICATION.  A PICKER CARE DATE OF THE MAILING DATE OF THIS COMMUNICATION.  A PICKER CARE DATE OF THE MAILING DATE OF THIS COMMUNICATION.  A PICKER CARE DATE OF THE MAILING DATE OF THE MAILI	Office Action Summers	10/718,779	CHISHTI ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensive for many be sevalated under the provisors of 3 CFR 1.1364, in no event, nower, may any by the intentify field  If NO period for regly is specified above, the maximum statisticiny period will apply and will explain SIX (3) MONTHS from the mailing date of this communication.  Failur to regive when the sor ore ended period for regly is specified above. The maximum statisticiny period will apply and will explain SIX (3) MONTHS from the mailing date of this communication.  Failur to regive when the sor ore ended period for regly is specified above. The maximum statisticiny period will apply and will explain SIX (3) U.S. c. 13.3.  Any redly reported by the Office later than time nominis after the mailing date of this communication, even if timely filed, may reduce any vertice parent than adjustment. Set 3 CFR 1.7040.  **Status**  1) □ Responsive to communication(s) filed on 01 August 2005.  2a) □ This action is FINAL.  2b) □ This action is FINAL.  2c) □ This action is FINAL.  2c) □ This action is formation is condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Explaints and 134 is/are repedied in the application.  4a) □ Claim(s) □ 1.58-19.21.27-49.51-53.57-62.87.88.90-120.133 and 134 is/are pending in the application.  4a) □ Claim(s) □ 1.58-19.21.27-49.51-53.57-62.87.88.90-120.133 and 134 is/are rejected.  7b) □ Claim(s) □ 1.58-19.21.27-49.51-53.57-62.87.88.90-120.133 and 134 is/are rejected.  7c) □ Claim(s) □ 1.58-19.21.21.49.51-53.57-62.87.88.90-120.133 and 134 is/are rejected.  7c) □ Claim(s) □ 1.58-19.21.21.49.51-53.57-62.87.88.90-120.133 and 134	Oπice Action Summary	Examiner	Art Unit				
Period for Reply  A SHONTENEO STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  after 53x (8) MONTHS from the mailing date of file communication.  If NO period for reply is specified above, the meanine station period will apply and ell engine XX (8) MONTHS from the mailing date of file communication.  If NO period for reply is specified above, the meanine station period will apply and ell engine XX (8) MONTHS from the mailing date of file communication.  If NO period comply which is set or saterated period for reply will, by station to become ANAMONICO (38 U.S.C. § 133).  Period of the set of the set of the communication is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-5.8-19.21.27-49.51-53.57-62.87.88.90-120.133 and 134 is/are pending in the application.  4) Of the above claim(s) 6.7.20.22-26.50.54-58.80-82 and 89 is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  Claim(s) is/are allowed.  Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or fo							
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 3 CPR 1.135(a). In the event, however, may a reply be lemely lited after 53k (8) MONTHS from the mailing date of this communication. If the provision of the provision							
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### **DETAILED ACTION**

Status of claims:

Pending: Claims 1-5, 8-19, 21, 27-49, 51-53, 57-62, 87, 88, 90-120, 133 and 134.

Withdrawn: Claims 6, 7, 20, 22-26, 50, 54-56, 80-82 and 89.

Canceled: Claims 63-79, 83-86, 121-132 and 135.

In view of further consideration, the indication of allowable subject matter is hereby withdrawn and a new action follows.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-5, 8-19, 21, 27-49, 51-53, 57-62, 87, 88, 90-120, 133 and 134 rejected under 35 U.S.C. 102(e) as being anticipated by Chishti et al (5975893). Chishti teaches the claimed subject matter as disclosed in the patent.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 8, 9, 13, 21, 27-30, 32-49, 51, 52, 57, 59-62, 87, 88, 90-115, 117-120 and 133 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martz (4793803) in view of Andreiko et al (5454717). Martz teaches generating a plurality of appliances having cavities with different geometries to reposition teeth, column 4, lines 12-15, and column 5, lines 4-12. Martz teaches using wax setups to generate the positions toward which the teeth will move, and therefore, does not show using a computer implemented method for generating the positions. Andreiko teaches using a computer to receive initial data, Figs 2G-2I, scanning, column 5, lines 17-20 and using the computer to calculate the desired positions to design and manufacture the appliances, column 13, lines 42-53. It would be obvious to one of ordinary skill in the art to modify Martz to include using a computer to compute instead of the wax up models to calculate positions and form appliances as shown by Andreiko in order to make use of known alternative ways of modeling tooth positions for forming more accurate appliances. The specific type of scanning used is an obvious matter of choice in known scanning techniques to the skilled artisan. Andreiko teaches several rules used to calculate the positions of the teeth, the specific rules used are an obvious matters of choice in well known orthodontic parameters used for calculating tooth positions to one of ordinary skill in the art. Finding a minimum movement is a well known use of computers when calculating parameters. See user input of Andreiko at column 13, lines 60-65, and different angles at column 17, lines 6-10 of Andreiko. Computer modeling of different alternatives is a well known use of the computer.

Claims 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martz (4793803) in view of Andreiko et al (5454717) as applied to claim 1 above, and further in view of Lemchen et al (RE 35169). The above combination does not show segmenting the dentition. Lemchen shows generating a mathematical model of individual teeth, column 12, lines 26-29. It would be obvious to one of ordinary skill in the art to modify the above combination to include segmenting the dentition as shown by Lemchen in order to better show and analyze the data.

Claims 14-19 and 53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martz (4793803) in view of Andreiko et al (5454717) as applied to claim 1 above, and further in view of Doyle (5879158). The above combination does not show using hidden structure for determining tooth positions. Doyle teaches modeling teeth including the use of hidden tooth root structures, Figs. 10-12. It would be obvious to one of ordinary skill in the art to modify the above combination to include the use of hidden tooth structures as shown by Doyle in order to better model the teeth.

Claims 31, 58, 116 and 134 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martz (4793803) in view of Andreiko et al (5454717) as applied to claim 1 above, and further in view of Robertson (5340309). The above combination does not show using animation. Robertson teaches animation, column 7, lines 63-69 and column 8, lines 1-28. It would be obvious to one of ordinary skill in the art to modify the above combination to include animation as shown by Robertson in order to better display the teeth.

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## Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-5, 8-19, 21, 27-49, 51-53, 57-64, 66-68, 72-77, 87, 88, 90-123 and 133-135 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-29 of U.S. Patent No. 5,975,893 in view of Andreiko et al (5454717). The claims of the '893 patent do not claim using a computer to determine and generate the desired appliances. Andreiko teaches that it is known to use a computer to generate appliances. It would be obvious to one of ordinary skill in the art to modify the claims of the '893 patent to include the use of a computer as shown by Andreiko in order to better make the appliances as desired.

### Terminal Disclaimer

The Terminal Disclaimer filed March 24, 2005 successfully removes the double patenting rejections based on patents 6,217,325, 6,318,994 and 6,450,807.

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### Remarks

With respect to the above rejection under 35 U.S.C. 102, it appears that this application may not have copendency with patent 5,975,893, and as such, the rejection is proper. With respect to the double patenting rejection based on 5,975,893, the filed Terminal Disclaimer does not disclaim this patent.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John J. Wilson whose telephone number is 571-273-4722. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin P. Shaver, can be reached at 571-273-4720. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John J. Wilson Primary Examiner Art Unit 3732 Page 7

jjw September 9, 2005